



**United States Environmental Protection Agency
Region 9 Laboratory**

1337 S. 46th Street Building 201
Richmond, CA 94804

Date: 5/31/2012
Subject: Analytical Testing Results - Project R33911
SDG: DRAFT 12145B
From: Brenda Bettencourt, Director
EPA Region 9 Laboratory
MTS-2
To: Richard Fetzer
US EPA Region 3, Eastern Response Branch
3HS31

Attached are the results from the analysis of samples from the **Dimock Residential Groundwater** project. These data have been reviewed in accordance with EPA Region 9 Laboratory policy.

A full documentation package for these data, including raw data and sample custody documentation, is on file at the EPA Region 9 Laboratory. If you would like to request additional review and/or validation of the data, please contact Eugenia McNaughton at the Region 9 Quality Assurance Office.

If you have any questions, please ask for DRAFT REPORT, the Lab Project Manager at (510)412-2300.

Analyses included in this report:

Dissolved Hydrocarbon Gases by GC



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United States Environmental Protection Agency
Region 9 Laboratory

modified 5/31/2012 12:47:00PM

1337 S. 46th Street, Building 201, Richmond, CA 94804
Phone: (510) 412-2300 Fax: (510) 412-2302

Project Manager: Richard Fetzer

Project Number: R33911

Project: Dimock Residential Groundwater

US EPA Region 3, Eastern Response Branch

100 Gypsum Road

Stroudsburg PA, 18360

SDG: DRAFT 12145B

Reported: 05/31/12 12:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
DRAFT: HW62	1205066-01	Water	05/22/12 15:59	05/24/12 09:50
DRAFT: TB55	1205066-02	Water	05/22/12 11:05	05/24/12 09:50
DRAFT: FB23	1205066-03	Water	05/23/12 13:25	05/24/12 09:50
DRAFT: HW63	1205066-04	Water	05/23/12 13:09	05/24/12 09:50
DRAFT: HW63z	1205066-05	Water	05/23/12 13:10	05/24/12 09:50
DRAFT: TB56	1205066-06	Water	05/23/12 09:55	05/24/12 09:50
DRAFT: FB22	1205066-07	Water	05/22/12 11:58	05/24/12 09:50
DRAFT: HW64	1205066-08	Water	05/22/12 11:10	05/24/12 09:50
DRAFT: HW64-P	1205066-09	Water	05/22/12 11:40	05/24/12 09:50
DRAFT: TB54	1205066-10	Water	05/22/12 08:10	05/24/12 09:50

SDG ID DRAFT 12145B

Work Order(s)

1205066



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Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 1205066-01							Water - Sampled: 05/22/12 15:59		
Sample ID: DRAFT: HW62							DRAFT: Dissolved Gases by RSK-175		
Methane		ND	U	1.2	ug/L	B2E0164	05/29/12	05/29/12	RSK-175/SOP325
Ethane		ND	U	1.2	"	"	"	"	RSK-175/SOP325
Ethene		ND	U	1.1	"	"	"	"	RSK-175/SOP325
<i>Surrogate: Acetylene</i>		90 %		66.4-153%		"	"	"	
Lab ID: 1205066-02							Water - Sampled: 05/22/12 11:05		
Sample ID: DRAFT: TB55							DRAFT: Dissolved Gases by RSK-175		
Methane		0.7	C1, J	1.2	ug/L	B2E0164	05/29/12	05/30/12	RSK-175/SOP325
Ethane		ND	U	1.2	"	"	"	"	RSK-175/SOP325
Ethene		ND	U	1.1	"	"	"	"	RSK-175/SOP325
<i>Surrogate: Acetylene</i>		91 %		66.4-153%		"	"	"	
Lab ID: 1205066-03							Water - Sampled: 05/23/12 13:25		
Sample ID: DRAFT: FB23							DRAFT: Dissolved Gases by RSK-175		
Methane		0.6	C1, J	1.2	ug/L	B2E0164	05/29/12	05/30/12	RSK-175/SOP325
Ethane		ND	U	1.2	"	"	"	"	RSK-175/SOP325
Ethene		ND	U	1.1	"	"	"	"	RSK-175/SOP325
<i>Surrogate: Acetylene</i>		105 %		66.4-153%		"	"	"	
Lab ID: 1205066-04							Water - Sampled: 05/23/12 13:09		
Sample ID: DRAFT: HW63							DRAFT: Dissolved Gases by RSK-175		
Methane	RE1	2,600		24	ug/L	B2E0168	05/30/12	05/31/12	RSK-175/SOP325
Ethane		4.2		1.2	"	B2E0164	05/29/12	05/30/12	RSK-175/SOP325
Ethene		ND	U	1.1	"	"	"	"	RSK-175/SOP325
<i>Surrogate: Acetylene</i>		112 %		66.4-153%		"	"	"	
<i>Surrogate: Acetylene</i>	RE1	115 %		66.4-153%		B2E0168	05/30/12	05/31/12	
Lab ID: 1205066-05							Water - Sampled: 05/23/12 13:10		
Sample ID: DRAFT: HW63z							DRAFT: Dissolved Gases by RSK-175		
Methane	RE1	2,300		21	ug/L	B2E0168	05/30/12	05/31/12	RSK-175/SOP325
Ethane		3.9		1.2	"	B2E0164	05/29/12	05/30/12	RSK-175/SOP325
Ethene		ND	U	1.1	"	"	"	"	RSK-175/SOP325
<i>Surrogate: Acetylene</i>		114 %		66.4-153%		"	"	"	
<i>Surrogate: Acetylene</i>	RE1	115 %		66.4-153%		B2E0168	05/30/12	05/31/12	
Lab ID: 1205066-06							Water - Sampled: 05/23/12 09:55		
Sample ID: DRAFT: TB56							DRAFT: Dissolved Gases by RSK-175		
Methane		0.6	C1, J	1.2	ug/L	B2E0164	05/29/12	05/30/12	RSK-175/SOP325
Ethane		ND	U	1.2	"	"	"	"	RSK-175/SOP325
Ethene		ND	U	1.1	"	"	"	"	RSK-175/SOP325



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Project Manager: Richard Fetzer
Project Number: R33911
Project: Dimock Residential Groundwater

US EPA Region 3, Eastern Response Branch
100 Gypsum Road
Stroudsburg PA, 18360

SDG: DRAFT 12145B
Reported: 05/31/12 12:46

Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 1205066-06 Water - Sampled: 05/23/12 09:55									
Sample ID: DRAFT: TB56 DRAFT: Dissolved Gases by RSK-175									
Surrogate: Acetylene		114 %		66.4-153%		B2E0164	05/29/12	05/30/12	
Lab ID: 1205066-07 Water - Sampled: 05/22/12 11:58									
Sample ID: DRAFT: FB22 DRAFT: Dissolved Gases by RSK-175									
Methane		0.6	C1, J	1.2	ug/L	B2E0164	05/29/12	05/30/12	RSK-175/SOP325
Ethane		ND	U	1.2	"	"	"	"	RSK-175/SOP325
Ethene		ND	U	1.1	"	"	"	"	RSK-175/SOP325
Surrogate: Acetylene		114 %		66.4-153%		"	"	"	
Lab ID: 1205066-08 Water - Sampled: 05/22/12 11:10									
Sample ID: DRAFT: HW64 DRAFT: Dissolved Gases by RSK-175									
Methane	RE1	ND	U	1.2	ug/L	B2E0168	05/29/12	05/30/12	RSK-175/SOP325
Ethane	RE1	ND	U	1.2	"	"	"	"	RSK-175/SOP325
Ethene	RE1	ND	U	1.1	"	"	"	"	RSK-175/SOP325
Surrogate: Acetylene	RE1	95 %		66.4-153%		"	"	"	
Lab ID: 1205066-09 Water - Sampled: 05/22/12 11:40									
Sample ID: DRAFT: HW64-P DRAFT: Dissolved Gases by RSK-175									
Methane	RE1	ND	U	1.2	ug/L	B2E0168	05/29/12	05/30/12	RSK-175/SOP325
Ethane	RE1	ND	U	1.2	"	"	"	"	RSK-175/SOP325
Ethene	RE1	ND	U	1.1	"	"	"	"	RSK-175/SOP325
Surrogate: Acetylene	RE1	112 %		66.4-153%		"	"	"	
Lab ID: 1205066-10 Water - Sampled: 05/22/12 08:10									
Sample ID: DRAFT: TB54 DRAFT: Dissolved Gases by RSK-175									
Methane		0.7	C1, J	1.2	ug/L	B2E0164	05/29/12	05/30/12	RSK-175/SOP325
Ethane		ND	U	1.2	"	"	"	"	RSK-175/SOP325
Ethene		ND	U	1.1	"	"	"	"	RSK-175/SOP325
Surrogate: Acetylene		117 %		66.4-153%		"	"	"	



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Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B2E0164 - RSK175 - Dissolved HC Gases

Prepared & Analyzed: 05/29/12

DRAFT: Dissolved Gases by RSK-175 - Quality Control

Blank (B2E0164-BLK1)

Methane	ND	U		1.2 ug/L						
Ethane	ND	U		1.2 "						
Ethene	ND	U		1.1 "						

Surrogate: Acetylene	71.3			"	66.5		107	66.4-153		
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LCS (B2E0164-BS1)

Methane	41.7			1.2 ug/L	44.1		95	70-130		200
Ethane	82.9			1.2 "	83.2		100	77-137		200
Ethene	77.2			1.1 "	78.3		99	78-138		200

Surrogate: Acetylene	71.1			"	72.0		99	66.4-153		
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Matrix Spike (B2E0164-MS2)

Source: 1205066-01

Methane	45			1.2 ug/L	44.1	ND	102	70-130		20
Ethane	88.1			1.2 "	83.2	ND	106	70-130		20
Ethene	81.7			1.1 "	78.3	ND	104	70-130		20

Surrogate: Acetylene	74.9			"	72.0		104	66.4-153		
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Matrix Spike Dup (B2E0164-MSD2)

Source: 1205066-01

Methane	47			1.2 ug/L	44.1	ND	107	70-130	4	20
Ethane	91.8			1.2 "	83.2	ND	110	70-130	4	20
Ethene	84.9			1.1 "	78.3	ND	108	70-130	4	20

Surrogate: Acetylene	76.7			"	72.0		106	66.4-153		
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Batch B2E0168 - RSK175 - Dissolved HC Gases

Prepared & Analyzed: 05/30/12

DRAFT: Dissolved Gases by RSK-175 - Quality Control

Blank (B2E0168-BLK1)

Methane	ND	U		1.2 ug/L						
Ethane	ND	U		1.2 "						
Ethene	ND	U		1.1 "						

Surrogate: Acetylene	61.1			"	66.5		92	66.4-153		
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LCS (B2E0168-BS1)

Methane	41.5			1.2 ug/L	44.1		94	70-130		200
Ethane	82.9			1.2 "	83.2		100	77-137		200
Ethene	77.3			1.1 "	78.3		99	78-138		200

Surrogate: Acetylene	72.1			"	72.0		100	66.4-153		
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Project: Dimock Residential Groundwater

Stroudsburg PA, 18360

Qualifiers and Comments

J The reported result for this analyte should be considered an estimated value.

C1 The reported concentration for this analyte is below the quantitation limit.

U Not Detected

NR Not Reported

RE1, RE2, etc: Result is from a sample re-analysis.